AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Previously Amended) A burn resistant and high tensile strength alloy, comprising:

about 55 to about 75 weight percent nickel;

about 12 to about 17 weight percent cobalt;

at most about 12 weight percent chromium;

about 1 to about 4 weight percent aluminum; and

about 1 to about 4 weight percent titanium.

2. (Original) The alloy of claim 1, wherein the nickel content is about 70 to about 75 weight percent.

3. (Original) The alloy of claim 1, wherein the cobalt content is about 13.5 to about 16.5 weight percent.

4. (Previously Amended) The alloy of claim 1, wherein the chromium content is about 1 to about 11.5 weight percent.

5. (Original) The alloy of claim 1, wherein the aluminum content is about 1 to about 3 weight percent.

6. (Original) The alloy of claim 1, further comprising about 0.15 to about 0.25 weight percent manganese.

7. (Previously Amended) The alloy of claim 1, further comprising silicon.

8. (Original) The alloy of claim 1, further comprising about 0.01 to about 0.5 weight percent carbon.

9. (Original) The alloy of claim 1, further comprising about 0.003 to about 0.009 weight percent boron.

10. (Original) The alloy of claim 1, further comprising about 0.02 to about 0.07 weight percent zirconium.

11. (Previously Amended) A nickel alloy, comprising:

at least about 72 weight percent nickel;

about 13.5 to about 16.5 weight percent cobalt;

about 6 to about 15 weight percent chromium;

about 1 to about 4 weight percent aluminum; and

about 1 to about 4 weight percent titanium.

12. (Original) The nickel-based alloy of claim 11, wherein the aluminum content is about 1 to about 3 weight percent.

13. (Original) The nickel-based alloy of claim 11, further comprising about 0.15 to about 0.25 weight percent manganese.

14. (Previously Amended) The nickel-based alloy of claim 11, further comprising silicon.

15. (Original) The nickel-based alloy of claim 11, further comprising about 0.01 to about 0.5 weight percent carbon.

16. (Original) The nickel-based alloy of claim 11, further comprising about 0.003 to about 0.009 weight percent boron.

17. (Original) The nickel-based alloy of claim 11, further comprising about 0.02 to about 0.07 weight percent zirconium.

18. (Previously Amended) A nickel-based metal alloy comprising:

at least 50 weight percent nickel;

less than about 12 weight percent chromium;

a threshold pressure at least about 4,000 pounds per square inch; and

a tensile strength at least about 160,000 pounds per square inch.

19. (Original) The nickel-based metal alloy of claim 18, further comprising cobalt, chromium, and titanium.

20. (Previously Amended) The nickel-based metal alloy of claim 19, further comprising: manganese, carbon, boron, zirconium, or silicon.

21. (Original) The nickel-based metal alloy of claim 18, wherein said threshold pressure is between about 4,000 and about 12,000 pounds per square inch.

22. (Original) The nickel-based metal alloy of claim 18, wherein said tensile strength is between about 160,000 and about 180,000 pounds per square inch.

23. (Withdrawn)

24. (Withdrawn)

25. (Withdrawn)

26. (New) A metal alloy, consisting essentially of:

at least 72 weight percent nickel;

less than 12 weight percent chromium;

about 12 to about 17 weight percent cobalt; and

less than about 10 weight percent of gamma prime formers.

27. (New) The metal alloy of claim 26, wherein said gamma prime formers consist of aluminum and titanium.

28. (New) The metal alloy of claim 27, consisting essentially of manganese.